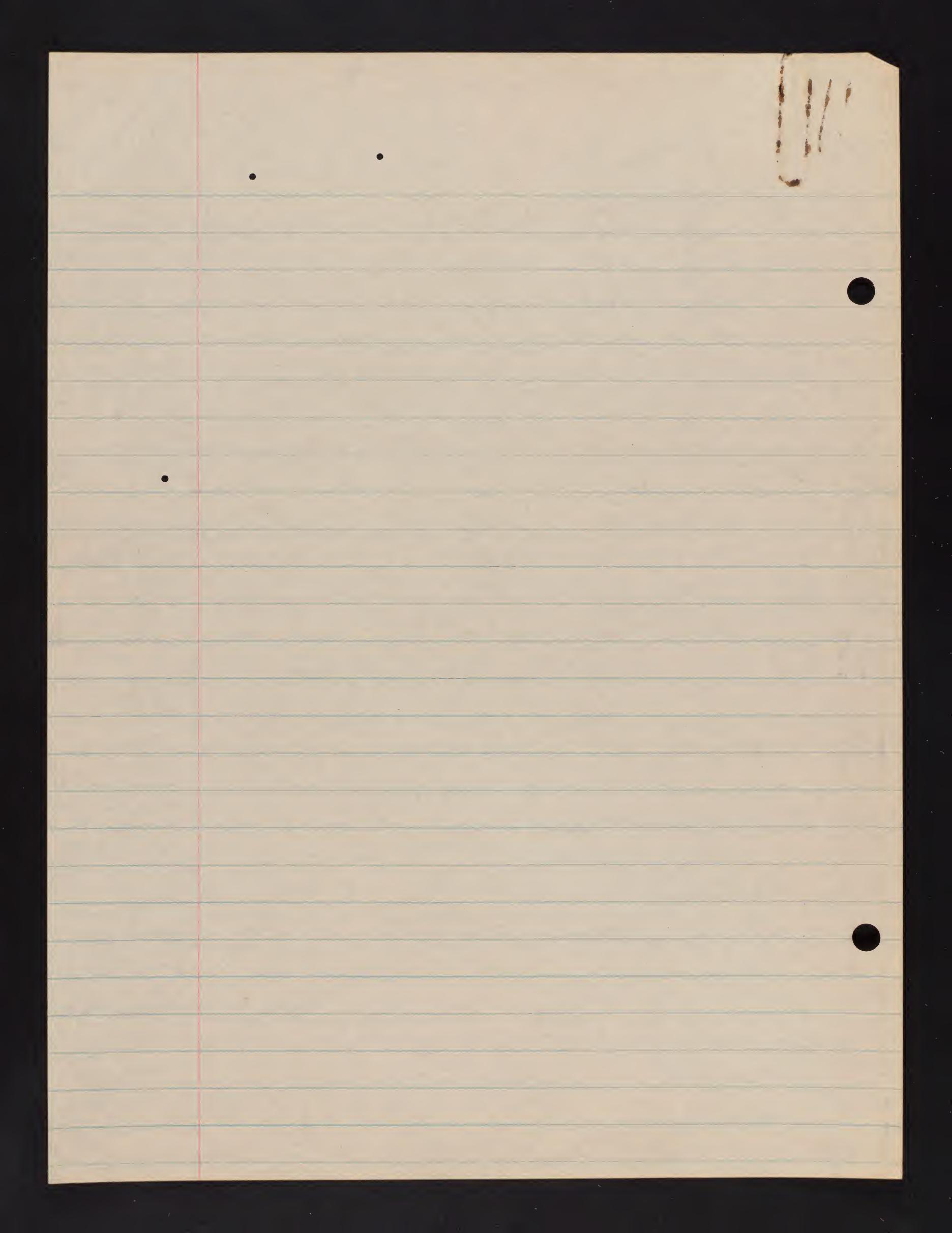
CEBUS APELLA



Celus apella, I. Décember 26, 1958 300, Luia There were a lost of those Fufted Capuchus here in a large cage with a ruigle Woolly. adults a rub-adults, all quite certific and all believing in a number way in general This species is really quite intermediate in appearance between the waller intuffed Capacheirs and the Woolle Mouley. Hey brown for a Capullin, with a broad beaughead. Uses its Jugers leve the mally Capuchen species, but I saw one of these Fufteds, a young adult or ald nub-adult, have from its tack above, without are support from hands or feet. They gave a wide variety of notes, with no wary intermediate types that I had great houble norther their out. I heard a few B-like notes which sounded lette ringle MGB softe White face, but there were relative very very rare I couldn't determine their roual uneuntaines, cames, or princtions The commonent note of there Juffeds was what I should Whereng holes (WB) fost notes, noweliwes rungle, I sometimes utlessed in series of estremely variable length. Mughet be how wheel as Wheeloo wheoo wheo wheo whee wheeloo whee ooo Rather planetine & conversational 'in tour. Muce were altered by lots of amurals in a wide variety of circumteerces. Unug during encounters between monliers and probably also occanovally directed by a montery toward brunan herios. I should magnie that this is probably a low internet hortile pattorn. Vellups the analogue and or homologue of the Equ or, were probably the

MGB's of other species. It is also hard premble, however, that all or work of the WB's contained a difficulte serval or friendly elemout, as the or attend WB's after the one copulation I observed and the only a annuals I was fairly certain were paired attended wB's as they walked around together; but somehow I rather doubt this on the whole.

Drught add, vicidentall, in connection with the ponible analogous or homologous relations of this WB pattern, that I didn't hear any efitiere Fafteds either any note which rounded leluthe four of the White-face).

The vert most convey round attend by their Tufteds was a roft trill, my number or identical in sound with the order au Fill of the White face Culuck I wall call 5 Fill from now ou). Both the low-petitied, wooden, and high-pitched, should types. Usually with wealth wide open and rome BT. Hus also & occurred in a great variety of circumlances, Often green during apparents purely libitile disputes by a retreatures animal. also queen quite commonly early in the afternoon (when visitors were Just ilarding to come into the zoo after lunch, and the montery were probably relatively herryry) by monthers trying to get food From human Tuentors. In these Cather corres, the Sfill's may leave been produced when houtle motivation was combined with rows "pouteur non-houtile drive, but the Still s during apparent. On surely livitele duputes must trave had a regults different can ration. It was be that the Still softless species are produced whenever the attack druce is apprecially counteracted by some opposmes tenderes (and the opposing tendency may be different in differ

3

out cases). This way also be true of the Still's of other speces as well. I may have got a respect, worms unpremon of the SThe 's of some other species (i.e. that they were always produced by some portine non hortele motivation in addition to both they must because I haven't seen them in all the circumstances in which they can occur,

was the fueren. Of the unal Celine type, quite lelie that of way other species in round, varying from quite however to quite the will. Green with mouth open a BT. Obvious connected with where bottlets, during vigorous dupietes Cree also description of copulation below). There seemed to be a general tendention the most begin putitied about sevenus to be green by reteating animals.

The most interesting of the calls of these Jufteds was the rarest. Only occurred late in the afternoon, before the real feeding time, when the animals were generally most active. Jong calls of man rapidly repeated short notes, which might be transmited as "Oo oo oo oo oo oo, "," I should like to call this RBB (ree also today's notes on Lagotherix) again given in a wide variety of circumstances. Extremely contagious! Whenever one around would start, was other animals would join in It was my unpremon that identical RBB performances were given by hoth of 's and o's, both adult and rub-adult. The whole thing recived to be quite comparable to the Townland of Howler montheys!

(Before Spaget, I should add that, in spite of the fact

that the friend news to be extremely hortely, it was uttered by more hers runling over to "greet" a man with whom they were obvioutly very familiar, probably a director of the zoo. This would recept that the friends are either put high internet, general friends on reactions, or, more probably, that they can occur when apparenable non-hortele motivation is activated, as long as houteth treefy is lingten.)

The great event of the daywas an apparenty merenful copulation! I fruit because amone of what mas young on by & news a large heavy armial (who turned out to be the g) re-& peatedly charing a stigletty malley a much lighter annual Culiotic & med out to be the of). There chaves mere just moit mules on the part of the q. The of rushed away from her each time you us, freeze after freau as he did so. Each true at the end of aretient, be would ut on his hund legs body quite erect, with his folded hands pressed against his chief or ever worred our his client (ma remoderly modert-looking way). This porture was new landardy of olevious lights ritualized. I wall call it "X", The of always faced the q during his X's Lowelines be continued freams from the X; link occasionally it was release the would often begin an X with freams and their full relevit after a few records while be remarked in X) I develo that the of west have started to approved or follow the of again after each chase & retual, and that their will well at from woked letter chaves a retreats, but I am not quite une about this, I had no when what this all was going to land to in the ends and no I dedu't pay too much attention at fourt, In any case,

Celus apella, Du 24, 1958, II (3) looked up to see the or sitting face to face with the q, with his hand on her cheele or clerer in an apparent grooming movement of oppositing wit more. He then quelly moved believed her, monreted, a cogulated apparently unempel at least 7-10 pelvice thrusts Both ausuals quite went throughout. Often the of got off the quid nothing but the of walked anound and uttered a 11 Jew WB holes. Hus X- må before copulation was not a punarily nexwhen chered & another montes during obvious prices assitte There was quite a lot of "play" wrestles of figlitus Cerette & luting or litting int mous,) in the group today. Moult unow-I was sub-adelles. Quite like that of the Squall mouliers in Iguites; evert that it was all quite illent. One of there "play" uncertheus brouts was believed a arrival I which I thought were a young of and an elderly adult q. The Is young arrival Nept charries the old one and trying to leap on It back. I thought that rome of their leaps ruglet be several attempts to mount; lent the old ausural always receited sugarous. les and nothing ever came of the whole thing. Hus years jumps up a down in ange the other monkeys feveral violividecals ded this when teared by viritors always quite relieut - except oure when it was accompanied by an Still Courther evidence that rome Soul o are largely or completely house and pourly rather aggrence at tunes???). One annual, the of who made the sunnful copulation all

Celeus apella, Dec. 26, 1958, VII. went hept following me around late in the afternoon The a cuould clurg, upriglet, on the barn of the cage, facing me, prob-I all wanters food. Quete relevit, While clevering in this way, be hepeatedly (at apprenable liet megular intervals) their I leis bread livele (approvimately to the vertical) in a very rapid bead lowing movement. I shall call this "T". I think that it I weer out an int, woo, of retreat Cebus apella, I. June 5, 1959 Borno Colorado I received a young or of this merces yesterday - by mentatie, Still a baby although not a vez young one. Tennicle. Cold? apparently recoverma from a broken arm. Hot we active. Harto be force god a lettle. Jan greeg it aureomycur every day. I shall call their moules A. Has juit two muicipal groups of patterns. The frist is WB, rounding quite like those of the Buffeds I watered uitte dewa 300 last year. Umally uttered as eventrally surgle notes, but frequently repeated a runce typical WB might be trosesculied by anything from "Wheeoo" to "Whanh"; I should estimate that elmost 70% of the WB's A bas uttered mice be cauce have been if this typical type, but be has also uttered a couple of wealer rounds which are probably lower interesty vernous of WB. The first is a meak, ligh- pileted, squale. Jethered in the same rocts of weres as typical WB actually there iqueales see. in to interpode completed with typical WB, and so they are presumable put slight lower viteunt, then the lowest viteunt, typical WB. An ever weaker getter is a sunffeed sue roft tribe; (juit like the teck of a roft clock).

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also recurtaines uttered in the name series as typical WB's. There seem to be WB's which are grit too weak to be actually "emitted!" It is my impression the at they intergrade both with the typical and the squeaky WB's.

The WB's attend by A are certainly hortite and or general funtsation rections, and almost cutainly the Somer rather than latter. When I finat toole A out of his travelling hor yesterday and put him in his new cage he attend lots of WB's (uprical) almost all the time for an hour or two. This epadwally declined. How he unally only attens WB's when I move my hand toward him as pulk him up.

formetimes, when I pick A up his WB Notes one ultical rue rapidly one well after the alter and become longer than unal and romewhat more succlinize. He unally tries to lite me vizorone at the rame time. There longer notes, in fact, would appear to be quite typical Scream patterns.

Pliere facts would seem to sugget that the WB patterns of this

yours are strictly equivalent to the wort common woderatet, Orfor interesty

B patterns of other species, eq. the MGB of capacienes and the B of the Houl
ers. It is pullages surpusus, therefore, that it rounds so mulike the B's

of other species.

The other principal pattern preformed by A is now claborate In its typical form it counits of a note, plus reveral wovements. He movements are our Ish, apparently just like the Ish of the White face (see notes of Mar. 31, on capacinus), and a PL of the unal type. The note is more penuliar, founds romewhat like an abbreviated MOB of the White face (pullaps just slightly sneey like), frequently with a shiflet of quality (rometimes, perhaps, rounding like an abbreviated "wooden" Ill of ruch species in the Woolly Heavily).

This pattern is not unally amounted with WB's Perhaps less h.

Celius apella, June 5, 1959, III. sortete? Approviently occurring in the name circumstances as the File & Shell Candoccarionally MGB) of the White-free. A unally grues this performance wh-I en Intarie at hem fivedly or interest from a few feet away. If he doesn't do it & collen I stare allain, I can sometimes induce it by shaleing my head my I self all this would suggest that the juttern is nowe rock of "greating", with or without hortitely. If the pattern as a whole is startly hourdozous with the number patter In of the White-face, this we need weggest that the note Twhich I shall call the Islik forthe hue being) is study hours of with the Still. Interesting of the as it would wear that the equivalents of the B and Still patterns of this years deffer from each other in toual quality in just exactly the opposite way from the Band Still sof other years. The round of the Toh N would rugged that it i more strette homologous with the notes intermediate heliver the tymeal B notes and tyrual Still a remeteries ultered by other species. Me Lik movement is requeteres performed without any round, and What doerthes mean? thirds that the Ish N can rometimes be uttered without any movement except P2 Celius apella, I. august 11, 1961 Barro Colorado Laure Rople here have a Tufted Capuchen as a pet. Not full grown. Lat Ceart & years old, Cut quite small (perhaps romewhat dwarfed beenen. Le of poor care ai infang). Very tame of?

Swent to vivit it this afternoon. When I fruit auveil, the annial greated me (and its owner) with 1 & a Curit of short notes which were after byu andfor WB, But it never ut

Cebus apella, aug. 11, 1961, II. The tered nucle notes again, devrine the ball hour I remained watering it. When it was let out of its cage, it immedially proceeded to inv estigate me (and David Bleet, who was along). SNF'd at both of us. Ollo treed to weethe with us. "Play" This play weething was accompanied ly a four Still is. also some relent MO & BT, and BT alon When the annual was not wretting with us, it ran goelly round and round the room, rlopping to play well warrous objects from twee to Is time. During this believes, it rettered a few ringle MGB's. Cebus apella, I. august 23, 1761 Baus Colorado I got a half grown Grifted Capuchen from Peru (Iguitas) last I week Healthy but sky. Call it Jose". Has been brept by tielf in an I outside cage. This monning I am going to put the tame White face, G One, in wette it. age, apparents ignoring Orle. Jose does not react very vigorous. Continues pauni around Utters quite a lot of rugle B's while paring Sort of "Eeyah" I rester. Second ryllable very wooden and hollow-nounding. These notes appear to be atter a districtive type of WB and/or low unterrety MGB's. 118 Vrobable the Jonner. Jose also does quite a lot of mateting (uning both bourds and fee t) during their pains also attens a few sweezes. I don't hnow if any of There patterns are nigruficant or not.

(10) Cebres apella, aug. 23, 1761, II Jone continues believens en before, until Bora comes with food; J. 8: 20 a.m. Food put right blevide Ork. Juse comes to get food repealedly. seems to ignote Ork completely. They Jose 'ulters a few typical MOB's (quite weller earlier B- typi notes) when coming to get food. Men goes back to paine, more or less on lufore, but went &: 30. |||奏 Then itarts uttering "Eegule" WB - Typi notes during paines. The fact that you uttered MOB's oul when coming down to get Jood mar Onle rugget that its MGB's contain a relatively though friendly component than its "Serul "notes (Beliavier continuing as lufoce; 8:55, Some of Jose's "Eagule" notes have just a trace of a trilling quality. 11 & alwort " Eerzuh-uh Jou starts comme down for food again 9:12. Ignores Oute. But again utters MGB's when coming down for food. Then returns to paring. Il again utters Egych , and not MOB's, while garing. Jose is ultering many fewer "Eggils" notes now, 7:30. apparent a getting med to me and or Orke (Orke is asleep now). also uters a buef ogu motes, suce, while pring. <u>&</u> Jose guit looks at Sprider Mouley Jamus ly. Ho other reaction Continues paine, ultering occarional "Ecynli" notes, when Que stants moving around age, 9:50 am. Back 4:50. Both annivals more or less as I left them. (See tol ay's motes on capacinis) Jose rtill panne branches. I dent when I fruit ap & groady when Ork display's modly. Then Jose utters a few single "Eagueli's after about 5 muntes, after Oak has begun to come down (and) one is pres

Celius apella, aug. 23, 1961, III

unally becoming used to me). Jose reacts very markedly to a Brifo warmens which approaches cause at 5:33. Extreme MO (with perhaps a leglet trace of BT). Filent. Followed le a bruf MOB's (MO probably stops when MOB's are utbreed). Then I go wito the eage and approach Jose, to see what he well do: Kuns around. alternating periods of releast BT (neg extrenie - "mouth I full of teeth - no true of MO) with mighe noft MOB's. STrelaves or disappears when MBB's uttered. Mus is good evidence that MOB is either less aggrerive a higher intensety than "Ecynth! Probably the Catter. The Ecynth's utitived les Jose earlier were not accompanied by aggrerine movements. and Jose alternated advances toward we and retreats away from me as it uttered the MOBD. (BT is also almost certainly aggressive.) Mus cuterpretation was conformed by another vicident a few records Cater. The Wood racks in a nearly case undereng began to cull neg loudly. Jose reacted by uttering a whole bruist of Eegule's, one right after the other interspersed with occasional roft MGB's. Obvious a relatively light witeus ity performance Certainly ligher intensity than the ruise Eegeth is he will ored earlier when pairing around his cage undeiturbed. Dan legrunne to Think that his Egul 's may be nothing more than les "umal" WB's. When I went done to Jose, he also performed some other movements, which I have seen before lint not commented ou. Purhing his chert and I throat along a branch. Thing his hard leap to purh. Whole chert renting on a branch. Orms daugling lungly on either ride of the branch. In this way be sometimes purbes limited 3 or 4 fect along a branch. Looks were runch as of the were trying to get sid of an itelion his cheet. Ozut he wit

When I stark my band in Cus cage, he atters a few surgles

Cebrus apilla, Jan. 20, 1962, II (13) very low jutilied, grunt-like, B. Hotes, Ohrrowitz hortile. a little de fricult to equate with other B patterns, founded almost like low pitch al abbreviated versions of the BB of White faces. Not uttered in rapid revier Three of four notes uttered at megular intervals A aloes MD with oul elight BT when Howlers suddenty bec our noisy, Prenimable A is elightly alarmed by their Love of his weshest and timefest MB's are neve lugh- putilled and plaintine. almost "WB's But not at all like the Eegule's of Jose Much rofter, less abrupt. When his cage is pulsed up, he runs around, utters a few Shel's and reveral more of the deep quuit leke B's (I shall call there "GB"). They were SARI's as Boea carries cage down hill. Then starts to atter a revuer of very wigent rounding MGB's. Very rapid. They a few I helps. Mugled wette a few "Eagule" notes. Eegule solveous uteru ediate lecturer hel's and MGB's "Mers more GB's and Fill's (mo re or less intermediate) when cage builles against branch Then utters Sueaus (rather howerse) when he thinks Boca is goin a to such him up by bound. quer introduced wto Jose's cage. Both animals start to utter lots of MGB's when they see one another Jose also atters "Egyuk"s. A streets to utter "Egyule's as well as MGB's as soon as he gets into Jose's cage Both animals new around cage uttering random pumble MGB's and "Egypte's for some two afterward 10:05 am. after Boia Ceaves, A Cooles after hun. With characteristic express ou. Eyebrows raised, Curt eyes paretty closed felent. Hery remuniscent of one of the greeting" or appearement expressions of Spriders. But with out PL. Ithus that I have new other Infleds assume same expression)

14)

A and Jose Lou treem to be recuting to one another at all now, 10:10; just reacting to me. A does one GB with Lole, as a reaction either to we on the m Iden appearance of a Curanow Then A does the ulant eye brown raised - eyes partly closed patt Both animals week queter now, Just uttering occasional MGB's, The MGB's of the 2 animals need to be nearly or absolutely ident A occasionally makes little sneeming noises. I don't think the ey ave rignificant. A is now spending all his time wateting me, while Jose news about nervous as unal The Raminals haven't gone near one another Jucidentally I forgot to mention that rome of the GB's uttered ly A while his age was being carried were obvious "transitional" to BB. With a definite booch quality. A is just slightly smaller than Jose! I think Jose is mobably 2. Heether annual has well developed tufts. is returning; but the never appeares to look at him Ital no change in the behaveor of the animals 10:35. A still downger lot of eye brown raised - eyes partly closed to me. Olio utilizing occarional MGB's. Some of there MGB's are ultered when his eyebrows are ranged and his eyes are partly closed, but this is not unal. The eyes emon is usually relent. It is often, I think, accompanied by just a she

glit trace of chin-lifting.

Cebus apella Jan 20, 1962, II (15) and A will get argumented. No. A does start to run around the cage a bit (be had been hitting watching me before this) but be doen't approx ch Jose! They wild thute frees cowe down to the cage, and I had to go back A goes back to retting and matching me eye brown raced and eyes partly closed most of the time. Thould explain that this eyebrows raved-eyes partly closed gatte run never long-unitaried. Always wantawid very bruft. But repeat 1 & ed very pequently. Leaving now 10:52. Will come back in the afternoon Back 4:50. Hay far away from cage for a few minutes, in order to see what the annials are done, Nothing much. Jose paning up and down & coge. A settrug vi corner Both rilent. Then when I come closer, both aurials start to utter MoB's. Wh and I rit down close to case, Jose continues to pace, but itarts to atter Expels s. A continues to sit, but does lots of eyebrow raisingeye party closed patterns, Janua we. no chin-lefting (perhaps I was me agring the chini-lefting this morning). But most of the eyebrow raisme eyes partly closed patterns when I fruit arrived were accompanied by definite Isla's and roft GB's One note per Ish after I had been sitting a while, A continued eyebrow raising - eyes partly cloud patter res but stopped the Loh & GB gatteries. Presumally an indication of do cluma whenty I think I shall call this eyebrows rand-eyes partly closed pa them Ex for the time being. I y Ey's. The effect of partial closing may be due to the fact that the eyebro

(6)

ws are raised no very light

Perhaps the yuk "parts of Jose's "Eeguk" over not videc atrons of BB — at least wall cases. No "oo "quality. Just resemble "undifferentiated" B's. Some of them might even be widications of al B's.

Quivals reverted to former cuitateresting behavior now 5:15
When I look at A intently he starts to perform the EY & Joh &
GB patteries again. EY's desappear between Joh & GB patterns.

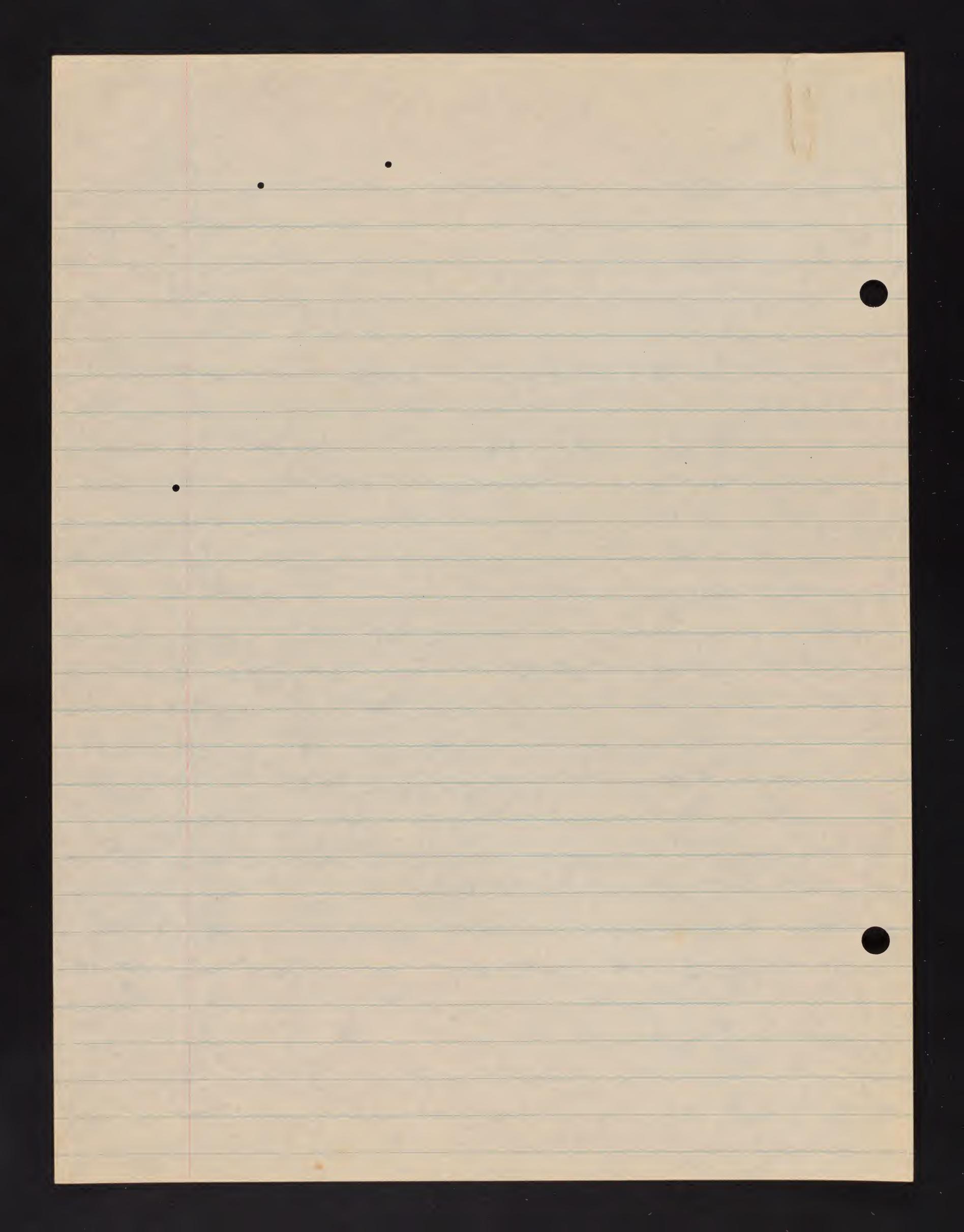
A was very outwe in his small cage upstavis. But he has sat still almost all the time suice he was put in Jose's cage. It think this must be an indication of alarm. Fers specialized than Idd of other species. No trace of looking down ward.

At 5:20, 9 went wito the cage to try and give A some food. The did nowe E/+ Like with "Engule"s as I approached. Then when ded outo E/+ Like o BG, when I stopped approaching him. Then sumped away when I came close to him. On he semped away be uttered a wonderful series: BG-BB- Science. Several notes of each brief. Intergrading. A perfect progression in fact.

Stirule "Ecyric"s must be more strongly hortile than MoB's and the fream obrironily contains a very strong escape component.

Leaving 5:30 p.m.

Celus apilla I July 29, 1763 Barro Colorado Jose escaped Cong ago and lives not been new sence For overa year, A has been liept with the Ork White face If Auist weage with Squirick Mouleup. Then both Onle and A liept of alow in eage next to three other Whitefaces. Onle is the hand raised Whileface who always chilities hunself Muna rout of "twelvey"- like portion, hands tuiled in in front, tout of curled anound hools. Hually while noulling, fourtimes with trace of Of bounding up and down . Armally down as a reaction to appressed by theman of hence Therest alarm a "friendly neartion? Or purely friendly? This afternoon, we apreced the cage door between Onle and A and the three other Whiteforces allowing their to murgle. More or less I prevally toward one another. Except for one adult (young delicet) of Muteface. This individual repeatedly threatened, and made little (uch Wited) attack nurbes toward, A. Three times, Onk reacted by ling monylete clulituis patterns non reminiscent of Orde. Thurself wh de vitting up. (Poulely with rlight intention monement of wouch). Hands tulled in Fail willed around body. This is the first time that I have seen ruch believes by A. 14 Tremulable inter-specific learning.



es 2 spp. of Cebus; 8

Und of hands and fugges. Description, 1

Use of tail young adult hanging by tail alone; .

"Fule" notes. Very roft. Ultered ly riche provenile apparents closely related to Squ-WB, cut even lower interests. 6

Squ. By juvenile, 6. not uttered ly Lewis animals, 2

of variable length: "Wheeeeecooo wheeoo" etc. Description: 1,6. By sweetle 6. By of, after niceuful copulation; 2. By wated accorded an ociative with one another; 2. Intergrading with Screams; 7.

Queral discurren; 4. Low intensity hortility?; 1. Produced by same motivation, and nubserving same function (s), as MGB capucinus?; 1. Partly friendly welfor revual?; 2.

MOB Relatively very race. Uttered oul new occasionally by Linia aminals, 1.

Ish and Ish Getes, By well juvenile. Gete a movement unally

CEBUS APELLA

but not always, occurring together. Note thely sounds rather like MG B capucines (and also, sometimes, like an abbreviated and very woo len Ill). With PL. By priverile, directed toward me. "greeting"

Tell. Variable in pitch and Conduers Certainly Comologous with Soul capucinis. Probably also includes homologues I nel capucin

Description, 2. Uwally with BT. 2. During purely hostite disputes, by retreating annual; 2. By animals trying to get food from vintors, 2.

ponent?; 2.

Soft hell's with Jud; 5

Scream Description; 3 With BT and (?) MO. 3 Inter-pad was with WB: 4. With X, by or before copulation; 4. Most bugli jutch ed Screams by retreating animals; 3. Sometimes general Justiation or non-bartile? 3.3

Ous, 3. analogous to Howling of alonatta?, 3.

Presumalely homologous with Hoot-OB patternis Carajon,

Pitheria, Callichus.

PL With Low notes. 7

BT With Mel's and Greams; 2

Wesd-torning Backward rotary movement. By adult of try nig to get food from we, 5.

Jud. Description, unally releast, sometimes wethe roft orle; 5.

Lefon much ful copulation. Often anompanied by fiveaus. 4.

By rub-adult during pively hortile disputes; 5.

"Play" figlitue and wrestling. Description, 3

Copulation Description apparent mecenful attempt; 4.

g channing of beforehand. I becausing and assuming X Poet

Trobably grooming of unmediately before mounting.

Cop. still quite relevit.

Tutters WB after cop. of relevit.

wres

